

User Manual

MODEL QS434
QS464
QS408
QS206



H.264 NETWORK DVR

QS Series



Thank You for Choosing a Q-See Product!

All of our products are backed by a conditional service warranty covering all hardware for 12 months from the date of purchase. Additionally, our products also come with a free exchange policy that covers all manufacturing defects for one month from the date of purchase. Permanent upgrading service is provided for the software and is available at www.Q-See.com.

Be certain to make the most of your warranty by completing the registration form online. In addition to warranty and technical support benefits, you'll receive notifications of product updates along with free downloadable firmware updates for your DVR. Register today at www.Q-See.com!

Please see the back of this manual for exclusions.



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Manufacturer shall not be liable for any damages whatsoever from misuse of this product.

About this Manual

This manual is written for the QS series of DVRs and was accurate at the time it was completed. However, because of our ongoing effort to constantly improve our products, additional features and functions may have been added since that time and on-screen displays may change. We encourage you to visit our website at www.Q-see.com to check for the latest firmware updates and product announcements.

Throughout the manual we have highlighted warnings and other important information that will assist you in operating your new system in a safe and trouble-free manner. Please take the time to read and follow all instructions and pay attention to alerts as shown below:



IMPORTANT! Red boxes with this icon indicate warnings. To prevent possible injury or damage to the product, read all warnings before use.



NOTE! Text in blue boxes with the Information icon offer additional guidance and explanations about how to make the most out of your system.

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To prevent damage to your Q-See product or injury to yourself or to others, read and understand the following safety precautions in their entirety before installing or using this equipment. Keep these safety instructions where all those who use the product will read them.



WARNING! ELECTRIC SHOCK RISK!



- Check the unit and any accessories included in the package immediately after opening. If items are missing or damaged, repackage and return to the point of purchase.
- Use the proper power source. Only use the power adapter supplied with your system. Do not use this product with a power source that applies more than the specified voltage (100-240V AC).
- Never insert anything metallic into the DVR. Inserting anything into the DVR or its case can be a source of dangerous electric shock.
- Do not operate in dusty areas.
- Do not expose this product to rain or use near water. If this product accidentally gets wet, unplug it and contact an authorized dealer immediately.
- Keep product surfaces clean and dry. To clean the outside case of the DVR, gently wipe using a lightly dampened cloth (only use water, do not use solvents).
- Do not operate this DVR without the cover securely in place. Do not attempt to do any repairs to the DVR yourself. If there are unusual sounds or smells coming from the DVR, unplug it immediately and contact Q-See technical support. Under no circumstances should the cover be removed while the device is connected to a power source. You should only remove the cover to install/replace the hard disk drive (**See Chapter 7**) or replace the standard 3v lithium cell battery on the motherboard. These are the only user serviceable parts. You may need to replace the battery if the internal clock resets itself after a power outage
- Handle DVR box carefully. If you accidentally drop your DVR on any hard surface, it may cause a malfunction. If the DVR doesn't work properly due to physical damage, contact an authorized dealer for repair or exchange.
- Make sure there is proper air circulation around the unit. This DVR system uses a hard drive for video storage which generates heat during operation. Do not block air holes located on the bottom, top, sides and back of the DVR as they are designed to keep the system cool while running. Install or place this product in an area where there is ample air circulation.
- Provide proper ventilation. This DVR has a built-in fan that properly ventilates the system. Do not cover or impede this fan.

FEATURES AND SPECIFICATIONS

This product offers the following features:

Smartphone Compatible

Access live footage directly from your iPhone, iPad or smartphones running Windows Mobiel, Android, Symbian or BlackBerry operating systems. Your DVR can also be set to e-mail your hand held-device whenever specific activity occurs, such as motion detection.

View Your Video Feed Online with No Extra Service Fees

View your DVR's live or recorded video footage on any Internet accessible computer with Internet Explorer, Mozilla Firefox and Google Chrome (using IE plug-in).

Stay Notified with Customizable Email Alerts

Set your system up to notify you when an event has occurred at the location you are monitoring. Notification alerts can easily be adjusted to your specifications.

Advanced Motion Detection Activated Recording

Advanced motion detection settings ensure that false alarms are not triggered. The easy to use motion detect set up screen allows you to mask out certain areas which experience heavy movement in order to avoid false alarms and avoid unnecessary record triggering.

Multiple Backup Options

A built-in USB port gives you the option of backing up and transferring your video footage using a flash drive or external USB hard drive. You can also connect to an external CD/DVD writer to burn your file footage right onto a compact disc or DVD disc. Files can also be accessed from your DVR system to a remote computer location by logging on remotely.

Connect to a TV or PC Monitor Easily

This system comes with both a VGA and BNC out port to allow you to connect to a TV or computer monitor for viewing purposes.

User-Friendly LCD Control Functions

Front panel button control allows instant booting up and system standby at the press of a button. LCD monitor can be set to go into energy efficient stand-by mode.

Included Mouse and Remote Control

In addition to front panel button controls, system can also be booted up and system standby using the included remote control or mouse. Mouse operation function supports intelligent operation by enabling copy and paste functions.

Storage Function

Encrypted file format to ensure data security and avoid vicious data modification.

Compression Format

Supports multiple-channel audio and video. Independent hardware decodes the audio and video signal from each channel to maintain video and audio synchronization.

Audio Recording

Two channels include audio as well as video input.

24/7 Scheduled Recording

Choose which days of the week and hours of the day you want to set your DVR to record or not record.

Multiple Playback Options and Advanced Search Functions

Supports real-time recording on each channel independently. Search through recorded files while you are playing live footage, monitoring through a remote location using a supported internet browsing application and backing up system files. A variety of playback modes include: slow play, fast play, backward play and frame by frame play.

Network Monitoring

Supports network remote real-time monitoring (available bandwidth permitting), remote record search and remote PTZ control.

Alarm Activation Function

Several relay alarm outputs enable you to pair your system with an on-site alarm system.

Communication Ports

- ♦ RS485 port can be used for PTZ camera control.
- ♦ RS232 port can connect to a keyboard for central control, and can also connect to PC COM to upgrade system and maintain system settings.
- ♦ Standard Ethernet port allows you to access the DVR from a network or the Internet.

PTZ camera control

- ♦ Supports PTZ decoder via RS485.
- ♦ Supports a variety of protocols to allow the DVR to control the PTZ speed dome: AD1641M, Admatrix, Banknote, DH-CC440, DH-Matrix, DH-SDI, Dh-SD2, Eptz, General, Haiyu, Hy, Lilin, Mercer-1, Panasonic, PE5051K, Pelco-9750, PelcoASCII, PelcoD, Pelcod-DON, PelcoD-S, Pelco-SI, Pelco-T, PelcoD1, PelcoD1-T, PelcoP, PelcoP-HK, PelcoP1, PelcoP5, Philips, Pih-717, QT-2XXD, Rm110a, Sae, Samsung, Sanli, Santachi, Sharp, Sony, WV-CS850I, WV-CS850II, WV-CS950, Yaan



NOTE! Depending on your point of purchase, your DVR may have the hard disk drive already installed. If your drive was packaged separately, or if you wish to upgrade your installed drive up to a 1 Terabyte (QS434 and QS408) or a 2 Terabyte (QS206) drive, please see Chapter 7 at the back of this manual which covers installing the drive.

INSTALLATION AND CONNECTION

CHAPTER 2

Please note that it is important to keep in mind common safety guidelines when installing your DVR or connecting additional devices – including turning off and unplugging your DVR before installing internal components.

POWER

The DVR's power supply plugs into the DC power socket on the back of the DVR. It is absolutely essential that you only use the power supply that came with the DVR to ensure proper operation and to avoid damage.

We also recommend that you use an uninterrupted power supply (UPS) so that the system will continue to operate in the event of a power loss. In addition, you should connect the DVR into a UL-1449 rated surge protector. It should have a joule rating of at least 400, a response time of 10 nanoseconds or less and a clamping voltage of no more than 330 volts.

Some models feature a power switch on the rear panel, while all models have a **soft power switch** on the front. For those models with a rear panel power switch, it must be flipped to the **On** position to start the DVR. The other models will power up as soon as they are plugged in.

When shutting down the DVR, it is essential that you do so by pressing and holding the **soft power switch** on the front until the DVR enters standby mode. Once the display goes blank, you may either flip the rear power switch to **Off** or unplug the DVR.

If you wish to restart the DVR from standby mode, then you may do so by pressing and holding the soft power switch again.

USB PORTS

With the exception of the Model QS464, the port on the front of the DVR is reserved for external USB drives - whether to back up saved files or to install a firmware upgrade. The USB mouse should be plugged into the port on the back of the DVR. The QS464 has dual USB ports on the front panel with the upper port used for the external drive and the lower port available for use by the mouse. The QS464 features a third USB port on the rear panel for use by the mouse should you prefer.

VIDEO DISPLAY

The DVR can output video to either a standard VGA monitor or television. The monitor is connected via a VGA monitor cable (not included) to the **VGA** port on the rear of the DVR. The television is connected to the BNC Video Out port on the DVR's back panel through the use of the included BNC (Male) to RCA (Female) adapter (**Picture 2-1**) which plugs into the RCA **Video In** port on the back of the television.



PICTURE 2-1

Both displays may be used at the same time, however they will both show the same images and they cannot be combined. The mouse cursor will only appear on one screen at a time and this may be selected by rolling the mouse scroll wheel forward (VGA) or backwards (television).

The second display may be used as a "Spot" monitor in a location away from the DVR to allow another person to view, but not control, the system.

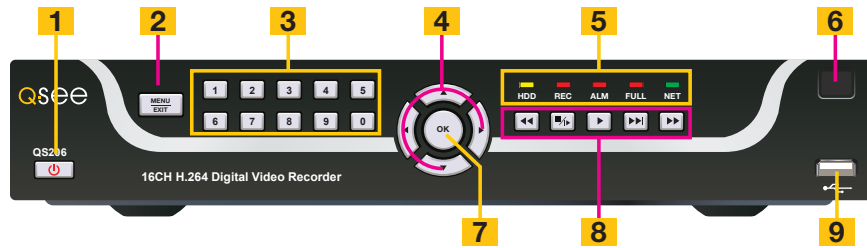


IMPORTANT! The default resolution of this DVR is 1024 x 768 pixels. Some monitors smaller than 19" may not display video properly.

The connections and ports of the various models are presented on the following pages.

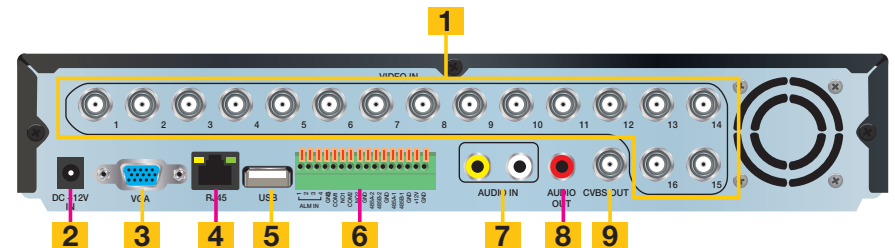
QS206

FRONT PANEL



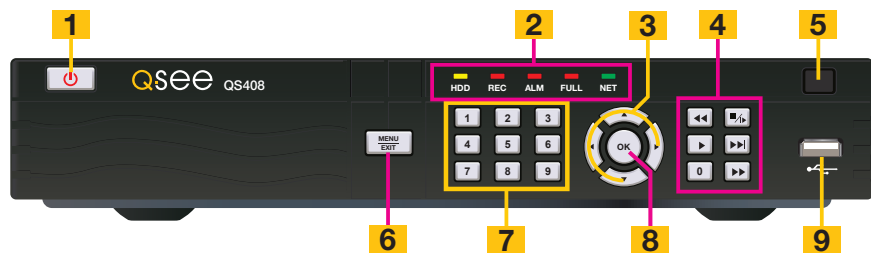
Item #	Name/ Symbol	Description
1	STANDBY	Press to set the system in standby mode. Press again to wake.
2	MENU/EXIT	Press to open/close the main menu.
3	CHANNEL/ NUMBERS	Press the number buttons to view the selected channel full-screen; press buttons 1-0 to input passwords and user IDs.
4	NAVIGATION	▲ Press to move cursor up; in PTZ mode, press to pan camera up.
		▼ Press to move cursor down; in PTZ mode, press to pan camera down.
		◀ Press to move cursor left; in PTZ mode, press to pan camera left.
		▶ Press to move cursor right; in PTZ mode, press to pan camera right.
5	LED INDICATORS	Shows status of hard drive, recording, alarm, HDD full and network.
6	IR SENSOR	IR Receiver for remote control.
7	OK	In menus, press to confirm selections; in PTZ mode, press to change the navigation buttons to control a connected PTZ camera (not included)
8	DURING PLAYBACK PRESS:	◀◀ Increase reverse playback speed 1X, 2X, 4X.
		■/▶ Press to freeze playback to one frame, then press again to advance frame-by-frame.
		▶ Press to start playback
		▶▶ Press to slow playback speed by 1/2, 1/4, 1/8.
		▶▶▶ Press to increase forward playback speed 1X, 2X, 4X.
9	USB	Connect a USB flash drive for data backup and firmware upgrades

REAR PANEL



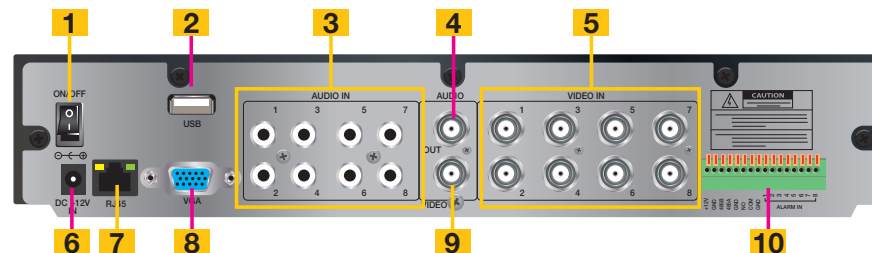
Item #	Connector	Description
1	VIDEO IN	Video input for connecting analog video signal input (BNC)
2		DC 12V/3A Power Connection
3	VGA OUTPUT	To connect to VGA monitor
4	NETWORK	For connecting Ethernet cable
5	USB	Mouse port
6	ALARM INPUT	8 I/O Alarm input
	ALARM OUTPUT	I/O Output for alarm
	RS485	RS485 for connecting PTZ
	RS232	Debugging port
	+12V	Power supply for DC relay, the current is 100MA (to prevent short circuits)
7	AUDIO IN	Audio input for connecting audio signal (2 feeds)
8	AUDIO OUTPUT	For connection to amplified speaker
9	VIDEO OUT	Video output for connecting TV (BNC)

QS408 FRONT PANEL



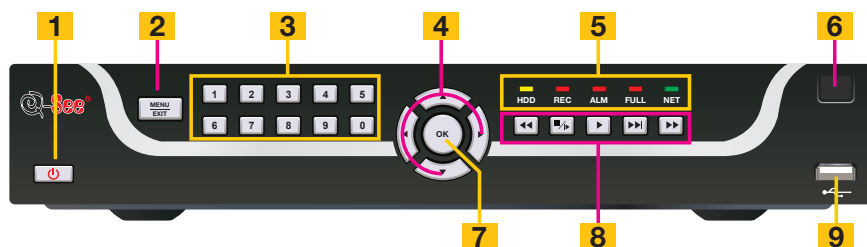
Item #	Name/ Symbol	Description
1	STANDBY	Press to set the system in standby mode. Press again to wake.
2	LED INDICATORS	Shows status of hard drive, recording, alarm, HDD full and network.
3	NAVIGATION	▲ Press to move cursor up; in PTZ mode, press to pan camera up.
		▼ Press to move cursor down; in PTZ mode, press to pan camera down.
		◀ Press to move cursor left; in PTZ mode, press to pan camera left.
		▶ Press to move cursor right; in PTZ mode, press to pan camera right.
4	DURING PLAYBACK PRESS:	◀◀ Increase reverse playback speed 1X, 2X, 4X.
		■/▶ Press to freeze playback to one frame, then press again to advance frame-by-frame.
		▶ Press to start playback
		◀◀ Press to slow playback speed by 1/2, 1/4, 1/8.
		▶▶ Press to increase forward playback speed 1X, 2X, 4X.
5	IR SENSOR	IR Receiver for remote control.
6	MENU/EXIT	Press to open/close the main menu.
7	CHANNEL/ NUMBERS	Press buttons 1-8 to view that channel full-screen Press buttons 1-0 ("0" is located next to the playback buttons) to input passwords and user IDs.
7	OK	In menus, press to confirm selections; in PTZ mode, press to change the navigation buttons to control a connected PTZ camera (not included)
9	USB	Connect a USB flash drive for data backup and firmware upgrades

REAR PANEL



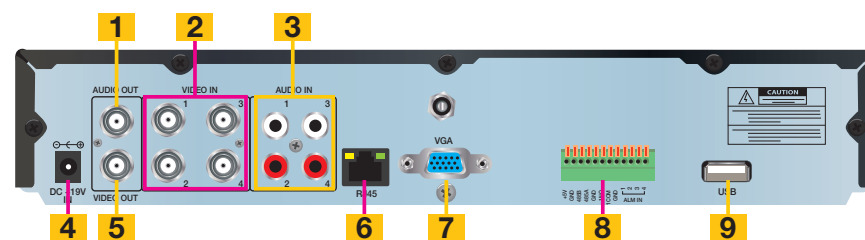
Item #	Connector	Description
1	Power Switch	Power On/Off
2	USB	Mouse port
3	AUDIO IN	Audio input for connecting audio signal (8 feeds)
4	AUDIO OUTPUT	For connection to amplified speaker
5	VIDEO IN	Video input for connecting analog video signal input (BNC)
6		DC 12V/3A Power Connection
7	NETWORK	For connecting Ethernet cable
8	VGA OUTPUT	To connect to VGA monitor
9	VIDEO OUT	Video output for connecting TV (BNC)
10	ALARM INPUT	8 I/O Alarm input
	ALARM OUTPUT	I/O Output for alarm
	RS485	RS485 for connecting PTZ
	RS232	Debugging port
	+12V	Power supply for DC relay, the current is 100MA (to prevent short circuits)

QS434 FRONT PANEL



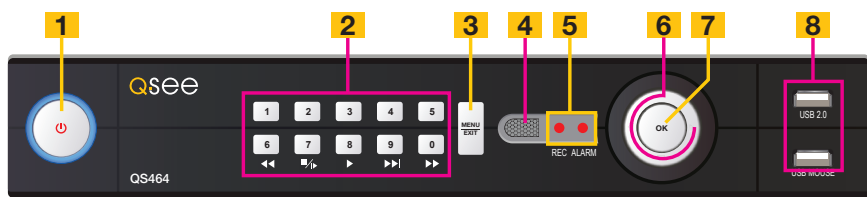
Item #	Name/ Symbol	Description
1	STANDBY	Press to set the system in standby mode. Press again to wake.
2	MENU/EXIT	Press to open/close the main menu.
3	CHANNEL/ NUMBERS	Press buttons 1-4 to view that channel full-screen Press buttons 1-0 to input passwords and user IDs.
4	NAVIGATION	▲ Press to move cursor up; in PTZ mode, press to pan camera up.
		▼ Press to move cursor down; in PTZ mode, press to pan camera down.
		◀ Press to move cursor left; in PTZ mode, press to pan camera left.
		▶ Press to move cursor right; in PTZ mode, press to pan camera right.
5	LED INDICATORS	Shows status of hard drive, recording, alarm, HDD full and network.
6	IR SENSOR	IR Receiver for remote control.
7	OK	In menus, press to confirm selections; in PTZ mode, press to change the navigation buttons to control a connected PTZ camera (not included)
8	DURING PLAYBACK PRESS:	◀◀ Increase reverse playback speed 1X, 2X, 4X.
		■/▶ Press to freeze playback to one frame, then press again to advance frame-by-frame.
		▶ Press to start playback
		▶▶ Press to slow playback speed by 1/2, 1/4, 1/8.
		▶▶▶ Press to increase forward playback speed 1X, 2X, 4X.
9	USB	Connect a USB flash drive for data backup and firmware upgrades











REAR PANEL



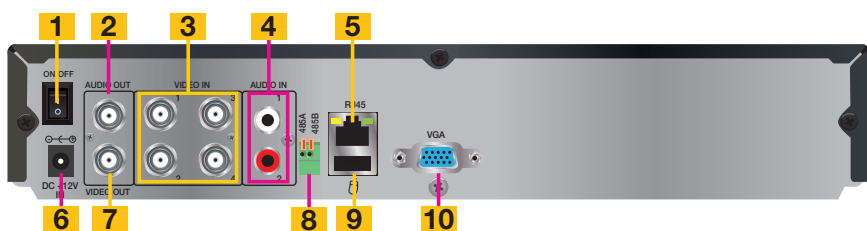
Item #	Connector	Description
1	AUDIO OUTPUT	For connection to amplified speaker
2	VIDEO IN	Video input for connecting analog video signal input (BNC)
3	AUDIO IN	Audio input for connecting audio signal (4 feeds)
4		DC 19V Power Connection
5	VIDEO OUT	Video output for connecting TV (BNC)
6	NETWORK	For connecting Ethernet cable
7	VGA OUTPUT	To connect to VGA monitor
8	ALARM INPUT	8 I/O Alarm input
	ALARM OUTPUT	I/O Output for alarm
	RS485	RS485 for connecting PTZ
	RS232	Debugging port
9	+12V	Power supply for DC relay, the current is 100MA (to prevent short circuits)
	USB	Mouse port

QS464 FRONT PANEL



Item #	Name/ Symbol	Description	
1	STANDBY	Press to set the system in standby mode. Press again to wake.	
2	CHANNEL/ NUMBERS/ PLAYBACK	Press buttons 1-4 to view that channel full-screen Press buttons 1-0 to input passwords and user IDs.	
DURING PLAYBACK PRESS:			
		Increase reverse playback speed 1X, 2X, 4X.	
		Press to freeze playback to one frame, then press again to advance frame-by-frame.	
		Press to start playback	
		Press to slow playback speed by 1/2, 1/4, 1/8.	
		Press to increase forward playback speed 1X, 2X, 4X.	
3	MENU/EXIT	Press to open/close the main menu.	
4	IR SENSOR	IR Receiver for remote control.	
5	LED INDICATORS	Shows recording status and motion detection (Alarm).	
6	NAVIGATION		Press to move cursor up; in PTZ mode, press to pan camera up.
		Press to move cursor down; in PTZ mode, press to pan camera down.	
		Press to move cursor left; in PTZ mode, press to pan camera left.	
		Press to move cursor right; in PTZ mode, press to pan camera right.	
7	OK	In menus, press to confirm selections; in PTZ mode, press to change the navigation buttons to control a connected PTZ camera (not included)	
8		USB	The upper port is to connect a USB flash drive for data backup and firmware upgrades. The lower port is to connect a USB mouse.

REAR PANEL



Item #	Connector	Description
1	Power Switch	Power On/Off
2	AUDIO OUTPUT	For connection to amplified speaker
3	VIDEO IN	Video input for connecting analog video signal input (BNC)
4	AUDIO IN	Audio input for connecting audio signal (2 feeds)
5	NETWORK	For connecting Ethernet cable
6		DC 12V Power Connection
7	VIDEO OUT	Video output for connecting TV (BNC)
8	RS485	RS485 for connecting PTZ
	RS232	Debugging port
9	USB	Mouse port
10	VGA OUTPUT	To connect to VGA monitor

This DVR can be controlled through the USB mouse or with the remote control. We have found that the majority of our customers prefer to operate their DVRs using the USB mouse because of its ease of use and flexibility and our manual is set up with this in mind. For your convenience, we also include a remote control which allows you to perform most of the day-to-day functions from a distance. It functions as a typical remote control with additional buttons allowing you to navigate through menus and control functions. We recommend that you configure your DVR using the mouse controls, reserving the remote control for operations such as live viewing, file search and playback. For the purposes of this manual, instructions will be given for using the mouse but the other modes are also presented in this chapter.

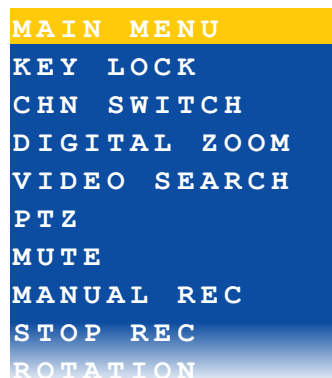
3.1 MOUSE CONTROL

The mouse operates in a manner similar to how it is used on a conventional computer; point-and-click, right-click, double click and so on. How these functions are used is based on the context of where they are used. Some examples are:

LEFT CLICK: Selecting an item
Opening a menu
Checking a box or motion detection status
Selecting letters, numbers or symbols on the virtual keyboard.

DOUBLE CLICK: Selecting an event for playback
Selecting a screen to zoom into from multi-screen mode

RIGHT CLICK Exits any window. Exits any menu or reopens previous menu.
Opens **Pop-Up Shortcut** Menu



PICTURE 3-1

CLICK-AND-DRAG Select motion detection zone
Select privacy mask zone

SCROLL WHEEL Scroll forward to select VGA monitor
Scroll backwards to switch to TV/RCA monitor

VIRTUAL KEYBOARD

The virtual keyboard is contextual. For example, it will only show digits when the field is for numeral entries. In fields where letters and symbols can be entered, users can switch between various formats – numbers, upper case, lower case and symbols – by selecting the blue tab in the upper right corner of the keyboard.

Available keyboards include:

NUMBERS

1	2	3	4	123
5	6	7	8	
9	0	↵	←	

UPPER CASE LETTERS

A	B	C	D	E	F	G	ABC
H	I	J	K	L	M	N	
O	P	Q	R	S	T	U	
V	W	X	Y	Z	↵	←	

LOWER CASE LETTERS











a	b	c	d	e	f	g	abc
h	i	j	k	l	m	n	
o	p	q	r	s	t	u	
v	w	x	y	z	↵	←	

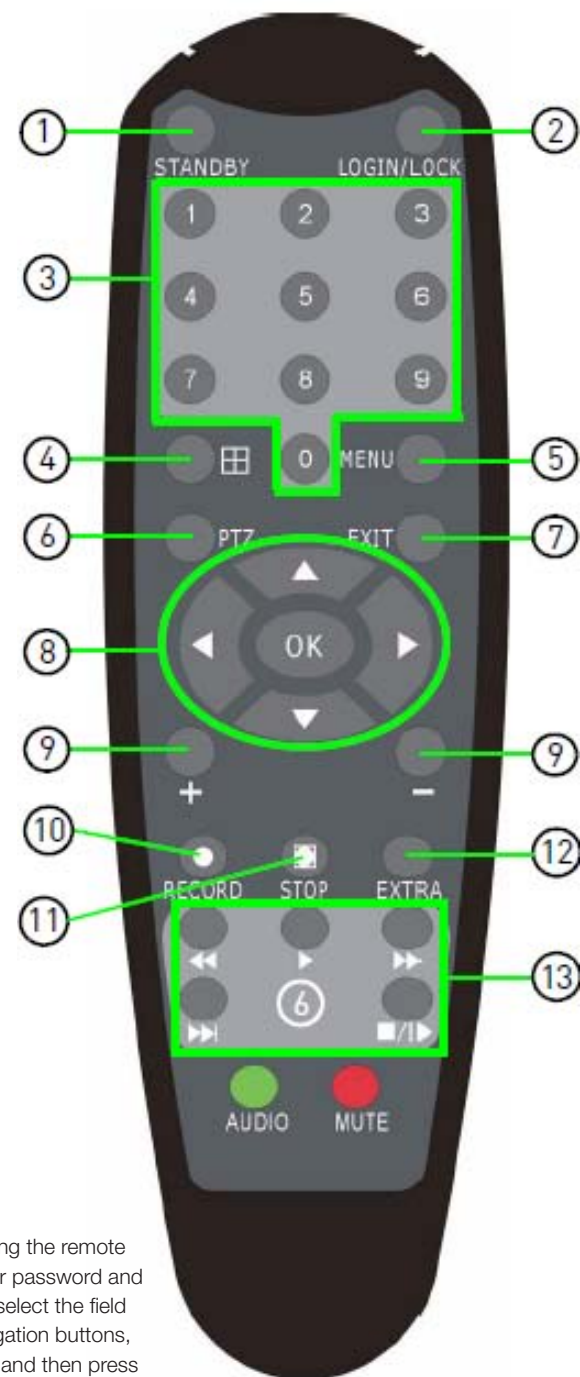
PICTURE 3-2

The keyboards are used by clicking on the desired character. Characters are deleted with the ← key. To finish entering your text, click the ↵ key. Clicking outside of the keyboard will close it.

3.2 REMOTE CONTROL

The buttons on the Remote Control operate in the same manner as on a conventional DVR remote. Some buttons have multiple functions depending on which menu is being accessed.

#	Name/Symbol	Function
1	STANDBY	Press to turn standby mode ON/OFF.
2	LOGIN/LOCK	If "Security" has been enabled in the Setup menu, press to open the user password login screen.
3	Number/Channel buttons	While in menus, press buttons 0~9 to enter values; during live viewing, press to view channels full-screen.
4		Press to switch between quad and full-screen displays.
5	MENU	Opens the main menu.
6	PTZ	Press to open the PTZ control window.
7	EXIT	Close menu windows.
8	Navigation/OK:	
	 /CH+	Move cursor in menus up; Channel Up.
	 /FWD	Move cursor in menus to the right
	 /REW	Move cursor in menus left
	 /CH-	Move cursor in menus down; Channel down.
	OK	In menus, press to confirm selections; during playback and preview, press to view system information
9	+/- : In menus, press to adjust values.	
10	RECORD: Press to start manual recording.	
11	STOP: Press to stop manual recording.	
12	EXTRA: For future use.	
13	Playback controls:	
		Increase reverse playback speed 2X, 4X, 8X
		Press to start playback
		Press to increase forward playback speed 2X, 4X, 8X
		Press to slow playback speed by 1/2, 1/4, 1/8
		Press to freeze playback to one frame, then press again to advance frame-by-frame



TIP: When using the remote control to enter password and camera titles, select the field using the navigation buttons, press ENTER, and then press the number buttons.

PICTURE 3-3

BASIC OPERATION

CHAPTER 4

This chapter is intended to help you get your DVR up and running before you activate any advanced features which are covered in later chapters. You can use the mouse, remote control and the buttons on the front of the DVR to operate your system, but for convenience, we will be discussing operations using the mouse.

4.1 POWER ON/OFF

Connect the power cable to the DC power port on the rear panel. If your DVR has a power switch on the rear channel you will need to flip it to the “On” position. If the DVR is not equipped with a power switch, it will power up when connected to a power source.

At startup, the system performs a basic system check and runs an initial loading sequence. After a few moments, the system loads a live display view.

STANDBY MODE

The system can be put into Standby Mode. Power will remain to the system but will not be recording. You may put your system into Standby Mode by one of two methods:

To Start Standby Mode:

Press and hold the **POWER** button on the front panel or remote control until the prompt closes. The system enters standby mode.

Select “Standby” in the pop-up **Shortcut** menu (described in the next section)

To Wake Up from Standby Mode:

Press and hold the **POWER** button on the front panel or remote control until the system beeps. The system will begin powering up.

SHUTDOWN

When the DVR will not be in use for an extended period of time, it is recommended that you shut it down completely. To do so, follow the above instructions to put the DVR into Standby mode. Once the DVR has gone into hibernation, turn off the power switch (if present) and then disconnect it from its power source - preferably by turning off the surge protector that it is plugged into.



IMPORTANT! To protect your system, you should always power down the DVR as described above before unplugging it or using the power switch.

4.2 SHORTCUT MENU

The Shortcut menu gives direct access to many of the system's functions, features and options without having to go through a series of intermediate steps.

Right-clicking with the mouse anywhere on the screen will bring up the **Shortcut** menu.

MAIN MENU: Opens the main system menu

MULTIPICTURE: Choose multi-screen mode

PTZ: Opens the PTZ control menu

VIDEO SEARCH: Open the Search Menu to view recorded video

MUTE: Mute listen-in audio on the system

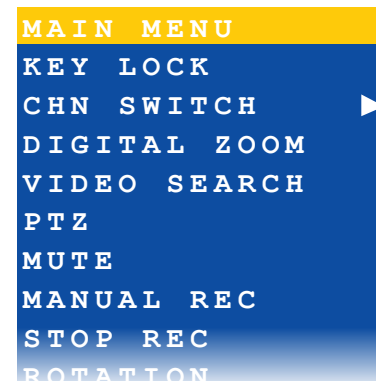
START RECORD: Start manual recording

STOP RECORD: Stop manual recording

START CRUISE: Activates preset PTZ cruise

STANDBY: Click to go into standby mode

ROTATION: Start full screen cycle through channels

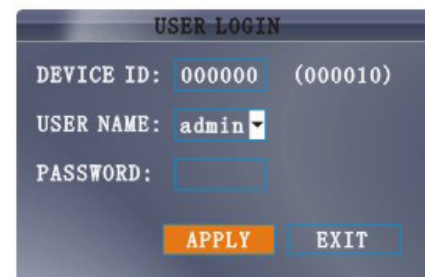


PICTURE 4-1

To close the **Shortcut** menu, click anywhere on screen.

4.3 SYSTEM LOGIN

By default, passwords are disabled on the system. You do not need to enter a password when accessing any system menus. The default user name is **admin** and the password is blank (no password). Just click **Apply**. However, for security purposes, it is highly recommended to enable passwords on the system using the **Password** menu.

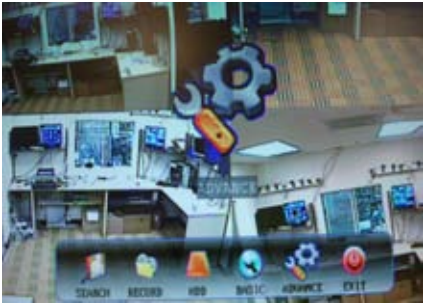


PICTURE 4-2

4.4 MAIN MENU

To access the **Main Menu**, right-click anywhere onscreen with the mouse to open the **Shortcut** menu and select **MAIN MENU**. Pressing the **Menu** or **MENU/EXIT** button on the remote control or front panel of the DVRm, respectively, will also open the **Main Menu**.

Placing the mouse over an icon will display information about its contents and/or function.



PICTURE 4-3

Symbol	Name	Function
	SEARCH	Search for recorded video on the system.
	RECORD	Configure recording parameters (quality, resolution), set record modes, and enable/disable audio recording.*
	HDD	Display hard drive status and format the internal hard drive of the system.
	BASIC	Open the Basic Setup Menu, which lets you set the system language, date and time, Device IDs and passwords, and configure audio and video settings.
	ADVANCE	Opens the Advanced Setup Menu, which lets you view system info, configure alarm, PTZ, mobile, and network settings.
	EXIT	Closes the Main Menu.

*Audio capable cameras or powered microphones (not included) are required for audio recording on the system.

4.5 BASIC SETTINGS

Set the system language, date and time, passwords, and configure audio and display options.

The Basic Setup menu contains the following submenus: **Language**, **Date/Time**, **Password**, **Display**, and **Video/Audio**.




PICTURE 4-4

LANGUAGE

English is the only language available at this time.



PICTURE 4-5

**IMPORTANT!** After changing the Video Format, the device will need to be restarted.



IMPORTANT! Date and time should be properly set before continuing so that you can easily locate recorded events. Inaccurate dates and times on files may affect their admissibility as evidence.

To set the date and time:

STEP 1. Click **DATE/TIME** and configure the following options:

- **DATE:** Enter the day, month, and year.
- **DATE FORMAT:** Select DD/MM/YYYY, MM/DD/YYYY, or YYYY/MM/DD
- **TIME:** Enter the time
- **TIME FORMAT:** Use the drop-down menu and select 12 HOURS or 24 HOURS
- **DST:** Use the drop-down menu to select **ON/OFF** to enable/disable Daylight Savings Time
- **ZONE:** Select the correct time zone based on your current location. If you are uncertain of your time zone, you can find it at <http://www.worldtimezone.com>



FIGURE 4-6

STEP 2. Click **MODIFY DATE AND TIME**. Click **CLOSE** in the confirmation window.

STEP 3. Click **APPLY**. The new date and time are saved.

Daylight Savings Time

To set daylight savings time:

STEP 1. Under DST, select ON. DST options appear.

STEP 2. Under DST MODE select one of the following:

- **CUSTOM:** Set customized start and end times for DST (go to step 4)
- **DEFAULT:** The Default setting will apply DST from the second Sunday of March to the second Sunday in November (**Go to step 3**)
- If using the DEFAULT, click APPLY.
- If setting a CUSTOM DST, use the drop-down menus to select a week and month for the start and end times.

STEP 3. Click APPLY. Click CLOSE in the confirmation window.

STEP 4. Click EXIT in each menu until all windows are closed. Type date via numeric key.

PASSWORD

When you first startup your system, you are automatically logged in as the ADMIN under Device ID000000. By default, passwords are disabled on the system. You will not need a password to log in or access menus. You will not need a password to access your system using the browser-based remote software.

The system employs two levels of user authorities connected to a Device ID. The authorities are as follows:

- **ADMIN** (administrator): Has full control of the system, and can change both administrator and user passwords and enable/disable password checking
- **USER** (normal user): Only has access to live viewing, search, playback, and other limited authorities.

For security reasons, it is highly recommended to enable passwords on your system. If you enable passwords, you must select a 6-digit ADMIN password and a 6-digit USER password.

The QS434 and QS464 only support one Admin and one User account.

You can change the Device ID and password of the ADMIN and the USER from the **Password** menu.

To open the **Password/Security** menu, click on **Basic** in the **Main Menu** and then select **Password**.

To change your Device ID and Password:

STEP 1. Click the field beside **Device ID** and enter a 6-digit numerical Device ID using the Virtual Keyboard. For example: changing the ID to 000010.

STEP 2. Under **Password**, select **ENABLE**.

STEP 3. Click the field beside **Admin Password** to enter a 6-digit numerical password using the Virtual Keyboard. Re-enter the password in the corresponding field.

STEP 4. Click the field beside **User Password** to enter a 6-digit numerical password using the Virtual Keyboard. Re-enter the password in the corresponding field.

The ADMIN and USER passwords must not be the same.

STEP 5. Click **Apply** to save your changes. Click **Close** in the confirmation window.

STEP 6. Click **Exit** in each menu until all windows are closed.

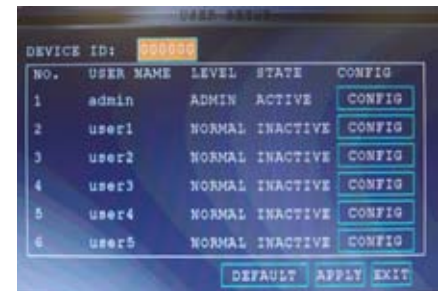


FIGURE 4-7



FIGURE 4-8

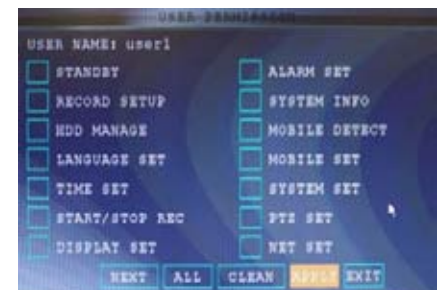


FIGURE 4-9

DISPLAY

Use the Display Setup menu to customize channel titles, show/hide the date and time in live viewing and playback, and enable/disable preview channels.

To customize Display settings:

STEP 1. Configure the following options:

- **NAME:** Click any of the fields and enter a new title for the selected channel using the Virtual Keyboard (mouse only)
- **POSITION:** Reposition the channel title; select **TOPLEFT**, **BOTTOMLEFT**, **TOPRIGHT**, **BOTTOMRIGHT**, or **OFF**. If OFF, the title will not be displayed for the selected channel
- **COLOR:** Adjust **CHROMATICITY**, **LUMINOSITY**, **CONTRAST**, and **SATURATION** for the selected channel
- **PREVIEW TIME:** Select **ON/OFF** to show/ hide the date and time during live viewing
- **RECORD TIME:** Select ON/OFF to show/hide the date and time during playback.

STEP 2. Click **NEXT PAGE** to change the settings for the remaining channels (8 and 16-channel models only).

STEP 3. Click **APPLY** to save your settings. Click **CLOSE** in the confirmation window.

Preview

Preview channels can be very useful if your display monitor is in public view. Select **OFF** for preview channel and it will appear black on the display to give the impression that no cameras are connected and the system is not recording.

To enable/disable preview channels:

STEP 1. Choose a channel you wish to conceal. For example, channel 3. Under **PREVIEW**, select **OFF**.

STEP 2. Click **APPLY**. Channel 3 will turn black. Click **CLOSE** in the confirmation window.

STEP 3. Click **EXIT** in all menus until all windows are closed.



PICTURE 4-10

VIDEO/AUDIO

Use the Video/Audio menu to set the resolution and camera video system on the DVR. You will need to have microphones or audio-equipped cameras connected to your DVR (through the **Audio In** ports) in order to record sound. To listen to recorded audio, you must have an external speaker connected to your **Audio Out** port on the back of your DVR.

To configure video options:

STEP 1. Under **VGA RESOLUTION**, select 800x600 or 1024x768.

STEP 2. Under **CAMERA SYSTEM**, select NTSC (North and most of South America) or PAL (Brazil and Europe).

STEP 3. Click **APPLY**. Click **CLOSE** in the confirmation window.

STEP 4. Click **EXIT** in all menus until all windows are closed.



PICTURE 4-11

To configure audio options (*Available only on Channels 1 and 2 on the QS464 and QS206*):

STEP 1. From the Video/Audio menu, click **VOLUME SETUP**. A split-screen display view appears.

STEP 2. Click any channel and adjust the slider to increase/decrease the volume for listen-in audio.

STEP 3. Click **X** to return to the Video/Audio menu.

STEP 4. Click **APPLY**. Click **CLOSE** in the confirmation window.

STEP 5. Click **EXIT** in all menus until all windows are closed.



4.6 HARD DRIVE (HDD) MANAGEMENT

This window displays essential information about the system's internal hard drive, and lets you format the internal hard drive and external USB flash drive.

The HDD menu displays the following:

- **HDD STATUS:** The system will display "OK" for normal operation. This DVR supports up to a 1TB or 2TB hard drive depending on the model.
- **SIZE:** The size (in gigabytes) of the internal hard drive. The size of your system's internal hard drive will vary by model
- **FREE SPACE:** The space (in gigabytes) remaining on the system's internal hard drive.
- **AVAILABLE TIME:** The recording time (in hours) remaining on the HDD based on your current record settings
- **OVERWRITE:** Select **ENABLE** or **DISABLE**. If Overwrite is enabled prior to recording, the system will record over the oldest video data once the hard drive is full. If Overwrite is disabled, the system will stop recording once the hard drive is full and the "FULL" LED on the front panel of the system will light up.



PICTURE 4-12

If there is no hard drive in DVR, or the DVR cannot read the hard drive, or the hard drive is not formatted, it will display an "H" in the video preview interface.

FORMATTING THE INTERNAL HARD DRIVE

If you installed a new hard drive, you must format the hard drive in the DVR before it can be used. Clicking on the **HDD Format** button will begin the formatting process. After formatting, the system will restart.



CAUTION! Formatting the hard drive erases all video data! This step cannot be undone!

To install a new hard drive, or to replace a defective one, please see **Chapter 7**.

Most currently available USB flash drives are compatible with this DVR, however if you need to reformat your flash drive - say to erase old data - then clicking on the **USB Format** button while the drive is connected to the upper USB port on the front of the DVR will allow you to reformat it. This button is **not for use** with any external USB hard drive you may connect to the DVR for backup. External hard drives will need to be formatted using the Fat32 format and this can be done by connecting the drive to the USB port on a PC and reformatting it from there.

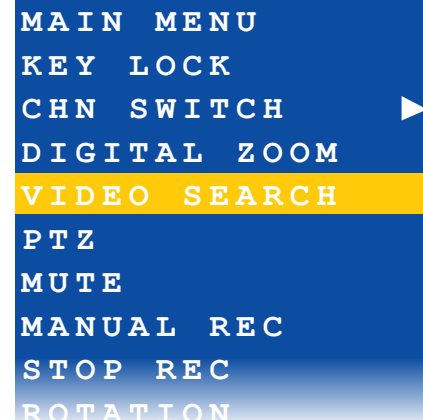


4.7 PLAYBACK

View recorded video on the system through the **Search** menu.

VIDEO SEARCH

Select **VIDEO SEARCH** in the **Shortcut Menu** (Picture 4-13) or select it in the **Main Menu** (Picture 4-14).



PICTURE 4-13



PICTURE 4-13

When you first open the **Search** menu it will display the current date.

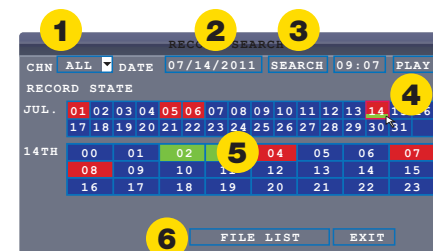
Click **PLAY** to play back the last minute of recorded video (Quick Search).

To search for a particular event:

STEP 1. Select a specific channel to view or select **All**.

STEP 2. Enter a date using the Virtual Keyboard

STEP 3. Click **Search**



PICTURE 4-15

Recorded events (Alarm and Motion Detection-triggered recordings) appear in red while scheduled recordings will be shown in green.

STEP 4. Click a date in the **Month Grid** to select the date of the video.

STEP 5. Click on an hour block to begin playback of the video file(s) recorded during that period.

or

STEP 6. Select **File List** to see a list of recorded files. (Shown in Picture 4-16)

FILE LIST

You can use the File List Shortcut Menu to see a detailed list of all the recorded video on your system. Clicking on a file will begin playback. In the case of multiple files, you may need to use the **Next** button to see another page of recorded files.

To narrow search results:

Under **TYPE**, select **NORMAL** to view only normal recordings, **ALARM**, to view alarm recordings (includes alarm and motion detection), or **ALL** to view all video on your system.

FILE LIST									
TYPE	ALL	00:00:00	SEARCH						
CH	TIME	SIZE	TYPE	BAK					
01	07:55:53-07:57:17	4.7M	Normal						
01	07:57:19-07:59:23	6.7M	Alarm						
01	07:59:25-08:00:33	3.7M	Alarm						
01	08:00:36-08:01:47	3.8M	Alarm						
01	08:01:47-08:02:26	2.2M	Normal						
01	08:02:26-08:08:15	18.3M	Alarm						

PICTURE 4-16

Navigation

Use the buttons on the side panel to navigate the file list:

- **FIRST**: Jump to the first page of the list
- **PRE**: Turn to the previous page
- **NEXT**: Turn to the next page
- **LAST**: Jump to the last page of the list
- **ALL**: Select all files
- **OTHER**: Clear all files
- **BACKUP**: After selecting a file(s), click to begin copying the data to a USB flash drive. See **Section 4.8 Backup**.

USING THE ON-SCREEN PLAYBACK CONTROLS

The DVR can play back a single channel in full screen or up to four channels in multi-view mode.

Move the mouse slightly to display the onscreen playback controls. You can also use the playback control buttons on the remote control or on front panel of the DVR.

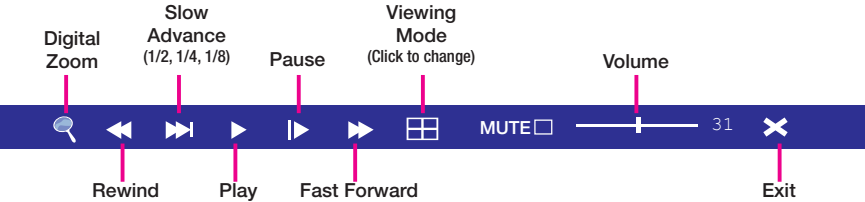
The controls operate in the same manner as those found on any VCR, DVR or other video player. You can play, pause, fast forward, rewind, and slow down playback.

Drag the slider to adjust the volume (You must have had an audio-capable camera connected to this channel at the time of the event). Select the box to mute the audio.

Click **X** to quit playback and return to the **Search** menu.



PICTURE 4-17



PICTURE 4-18

4.8 BACKUP

Once you have located a recorded video event on your system's hard drive, you can copy it to a USB flash drive. Most USB flash drives are compatible with this DVR.

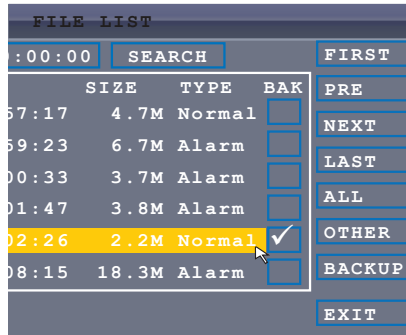
Backing Up Recorded Data

STEP 1. Connect a blank USB flash drive to the top USB port on the front panel of the DVR.

STEP 2. Open the **Search** menu and search for recorded data on the system.

STEP 3. Click **FILE LIST**.

STEP 4. Select the files you want to backup and click the **BAK** box next to the file name (**See Picture 4-19**). Select multiple files if desired. Click **ALL** to select all files; click **OTHER** to deselect all files.



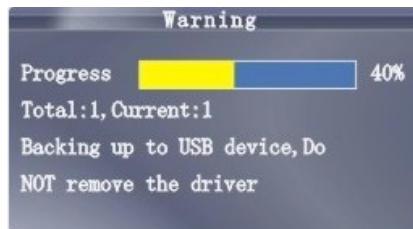
PICTURE 4-19



NOTE! The size of each file is shown in the File List menu. Use this to help you find a USB flash drive large enough to hold all the files you wish to backup.

STEP 5. Click **BACKUP** from the side-panel to immediately begin copying the files to the USB flash drive.

The download progress will be displayed in the status window.



PICTURE 4-20



CAUTION! DO NOT remove the USB flash drive during backup.

USING THE PLAYBACK SOFTWARE

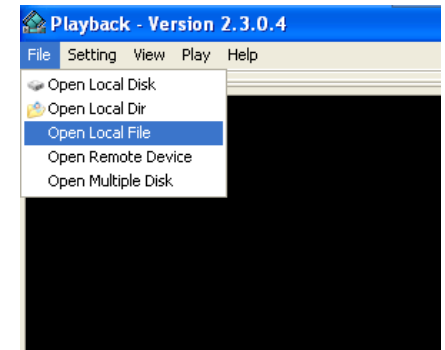
The **Playback** software included on the accompanying software disk will play back the video files created by your DVR. These files have a **.264** file extension and will not play on standard media player software unless you convert them to .avi format using the Playback program.

Install the Playback software to your computer as normal before attempting to view video you have backed up.

To view a video file on your computer

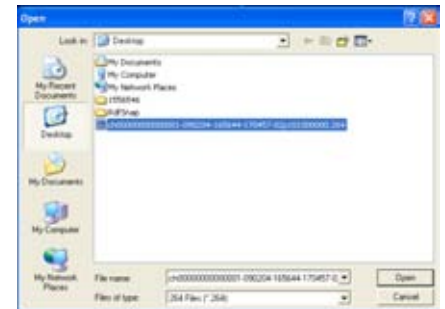
STEP 1. Copy one or more backup files to your PC.

STEP 2. Launch the Playback software and select “Open Local File” from the File Menu.



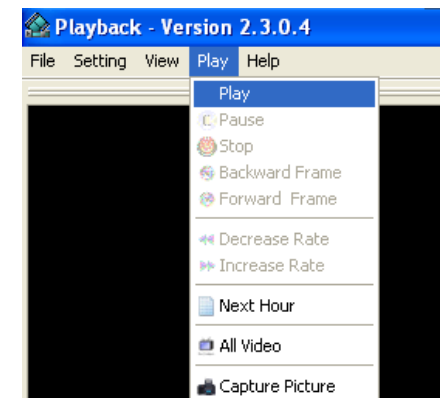
PICTURE 4-21

STEP 3. Navigate to the file you wish to play back. It should have a .264 file extension.



PICTURE 4-22

STEP 4. Once you've loaded the file into the program, click the **Play** menu and select **Play**.



PICTURE 4-23

STEP 5. When you select **Play**, a **Playback Control Bar** will appear.



PICTURE 4-24

#	Function	#	Function
1	Hour Blocks	2	Minute
3	Progress Bar	4	Date
5	Play	6	Previous Recording File
7	Pause	8	Stop
9	Previous Frame / Next Frame	10	Slow Play, Normal Play, Fast Play
11	Next Hour	12	Snapshot
13	Reduce window	14	Play All Channels
15	Add window	16	Start
17	Cut	18	Delete
19	Convert AVI	20	On-Screen Display
21	Mute	22	Volume

Click the ▲ button on the bottom of the multimedia player and then click the **Play** button (Item number 5 in **Picture 4-24**) to start playing the file.

The **Playback Control Bar** shows the date the file was recorded. The Hour Blocks indicate (in 24 hour format) at what hour the event took place. The green area in the Progress Bar shows when in that hour the event occurred as well as how far the player is in the video recording.

The example displayed in **Picture 4-24** above, shows that the event being played was recorded on April 2, 2009 from 4:57pm (16:57) to 5pm. Clicking on the Next Hour button (Item number 11 in **Picture 4-24**) would take the user to the rest of the event beginning at 5:00.00.

Video Play Settings

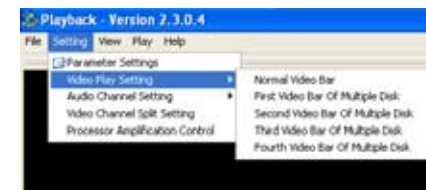
Each video record contains data from all the cameras that were recording at that time. You can view up to four of those recordings at one time by clicking on the “Play All Channels” button (Item number 14 in **Picture 4-24**). Or, you can choose which channel will be played back in the Playback software by following these steps:

STEP 1. In the Setting menu in the Playback software toolbar, select Video Play Setting

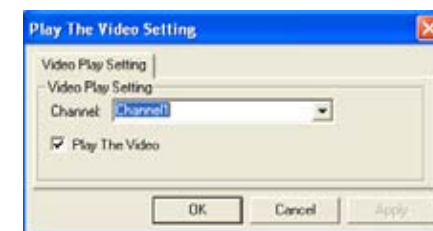
STEP 2. From that pull-down menu, choose Normal Video Bar.

STEP 3. In the resulting pop-up window, choose which channel you wish to view.

STEP 4. Check the box ☒ next to “Play The Video”. Click **Apply** then **OK**.



PICTURE 4-25



PICTURE 4-26

Audio Settings

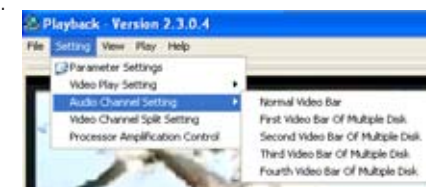
If you have connected an audio-capable camera or a microphone to Channels 1 or 2, you can play back recorded audio along with the video.

STEP 1. In the Setting menu in the Playback software toolbar, select Audio Channel Setting.

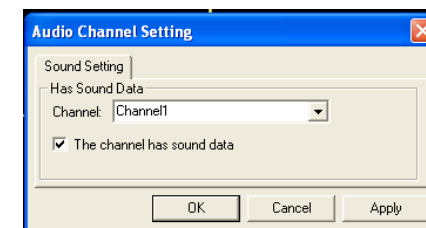
STEP 2. From that pull-down menu, choose Normal Video Bar.

STEP 3. In the resulting pop-up window, choose which channel you wish to enable audio for.

STEP 4. Check the box ☒ next to “The channel has sound data”. Click **Apply** then **OK**.



PICTURE 4-27



PICTURE 4-28



The controls for scheduling recording are mostly found in the **Record** menu which is located in the **Main Menu**. Certain features, such as Motion Detection, are located in the **Advanced** menu (also reachable through the **Main Menu**) but are included here for ease of instruction.

5.1 RECORDING CONFIGURATION

In addition to scheduling the recording times for your cameras, you can also set resolution format, bitrate, recording block size, audio feed and recording mode among other parameters.



PICTURE 5-1

The menu will only display four channels at a time. If your system supports more channels, a pull-down menu in the upper left of the menu allows you to switch between groups of four channels; 1-4, 5-8, 9-12 and 13-16.

The recording options for each camera can be selected independently and are available below each camera's channel number.

CHANNEL. Enable/disable recording for a specific camera by toggling it On or Off using the pull-down menu.

RESOLUTION On the QS 206, CIF is the only resolution option. The QS408 offers the larger and clear D1 recording format on channels 1 and 2. Both the QS434 and 464 offer D1 on all channels

BITRATE Select BEST, FINE, or NORMAL. Set up the code rate for recording corresponding to 768Kbps, 512Kbps and 384Kbps.

AUDIO If you have a powered microphone or audio-capable camera connected to Channels 1 and/or 2, you can select ENABLE to record the audio feeds. Audio feeds are not possible on other channels.

REC. MODE Select **POWER UP** to record continuously from the time the DVR is turned on. If you select **TIMER RECORD**, you will need to set a recording schedule on the system.

REC. SIZE Record Size sets the file size for recorded video files on the system. Instead of recording data as one large file, the system will divide the data into blocks of 15, 30, 45, or 60 minutes. This makes the recorded data easier to search.

Click **APPLY** to save your settings. Click **CLOSE** in the confirmation window.

Click **EXIT** in every menu until all windows are closed.

5.2 RECORDING SCHEDULE

The DVR is set by default to record on all channels when motion is detected (designated as "Alarm Recording." You can program a customized schedule that best meets your individual needs.

The **Schedule Grid** shows the days of the week and hours 0~23. You can set Alarm Recording (Red), General (Normal) Recording (Green), or No Recording (Blue) to each time block of each day.



PICTURE 5-2

To set a recording schedule:

- STEP 1.** Open the **Main Menu** and click **RECORD**.
- STEP 2.** Under **REC. MODE**, select **TIMER RECORD**.
- STEP 3.** Click **SCHEDULE**. The **Schedule** menu opens.
- STEP 4.** Under **CHANNEL**, select specific channels or select **ALL**.
- STEP 5.** Below the grid, click either **ALARM** (red), **GENERAL** (Green), or **NO RECORD** (Blue) and then click a time block on the desired day.
- STEP 6.** Use the **FROM/TO** drop-down menus to copy the schedule of one day to another. For example, if you want your schedule for Monday to be the same on Wednesday: under **FROM** select **MON**, under **TO** select **WED**, and then click **COPY**.
- STEP 7.** Click **SAVE**.
- STEP 8.** Click **EXIT** in each menu until all windows are closed.

Example

You want your system to record continuously on all channels from 9 AM to 5 PM Monday to Friday. You also want Alarm/Motion recording from 5 PM to 9 AM. You do not want the system to record Saturday or Sunday.



PICTURE 5-3

- STEP 1.** Open the **Schedule** menu.
- STEP 2.** Under **CHANNEL**, select **ALL**.
- STEP 3.** Click the blue **NO RECORD** block below the grid. A checkmark will appear in the block.
- STEP 4.** Under **SUN**, click blocks 00~23. The blocks will turn blue.
- STEP 5.** Under **FROM**, select **SUN**. Under **TO** select **SAT**, and then click **COPY**.
- STEP 6.** Click the red **ALARM** block below the grid.
- STEP 7.** Under **MON**, click blocks 00~08 and blocks 18~23. The blocks will turn red.
- STEP 8.** Under **FROM**, select **MON**. Under **TO** select **TUE**, and then click **COPY**. Repeat for Wednesday, Thursday, and Friday.

Your completed schedule should be the same as the schedule in Picture 5-3. **Save** your settings and **Exit** the window.

5.3 MASK FIELD

The Mask Field lets you block a specific portion of a channel you do not want recorded or shown on the display screen. This can be useful if you need to conceal a sensitive area being captured by the installed camera.

To use the mask field:

STEP 1. From the **Record** menu, click **MASK FIELD SETUP**. The **Mask Field** menu opens.

STEP 2. Choose a channel you wish to apply the Mask Field.

STEP 3. Select **ON** from the **SWITCH** drop-down menu.

STEP 4. Click **SETUP**. The **Mask** menu will be replaced by the full-screen camera view of the desired channel.

STEP 5. Using the mouse, click and drag the cursor over the area you want to conceal. A single click will produce a small black square.

STEP 6. Right-click anywhere on the screen to return to the Mask Field menu.

STEP 7. Click **APPLY**. Click **CLOSE** in the confirmation window.

STEP 8. Click **EXIT** in all menus until all windows are closed.



PICTURE 5-4



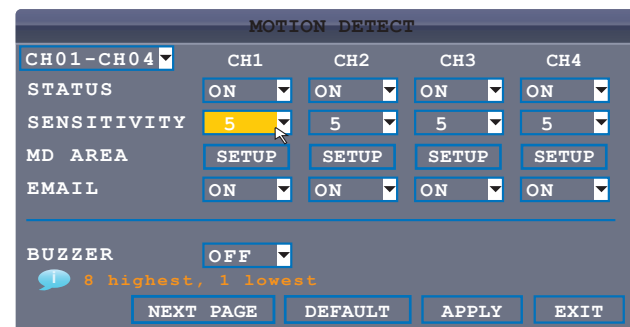
PICTURE 5-5

5.4 MOTION DETECT

The default recording mode for your DVR is "Alarm" which includes motion detection. The **Motion Detection** menu can be found by accessing the **Advance** menu from the **Main Menu**. In this menu you can configure motion detection for each channel.

The menu will only display four channels at a time. The pull-down menu in the upper left of the menu allows you to switch between available groups of four channels.

The motion detection options for each camera can be selected independently and are available below each camera's channel number.



PICTURE 5-6

Motion Detection Settings

STATUS Select ON to enable motion detection for the desired channel.

SENSITIVITY Select 1 through 8. The higher the number, the more sensitive the motion detection.

MD SETUP This allows you to choose which areas of the camera's field of view should detect motion.

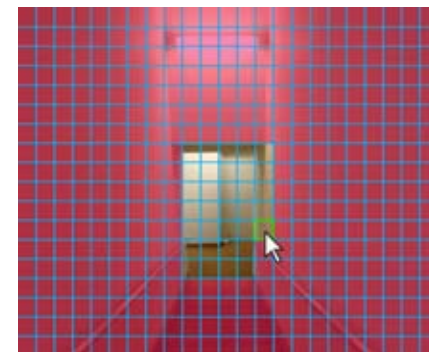
STEP 1. Click **SETUP** and a motion detection grid appears over the selected camera's video in full screen.

STEP 2. Click the blocks in the grid to enable/disable motion detection.
Red=Motion detection enabled
Clear=Motion detection disabled.

STEP 3. Right-click anywhere on the screen to return to the Motion Detection menu.

STEP 4. Click **APPLY**. Click **CLOSE** in the confirmation window.

STEP 5. Click **EXIT** in all menus until all windows are closed.



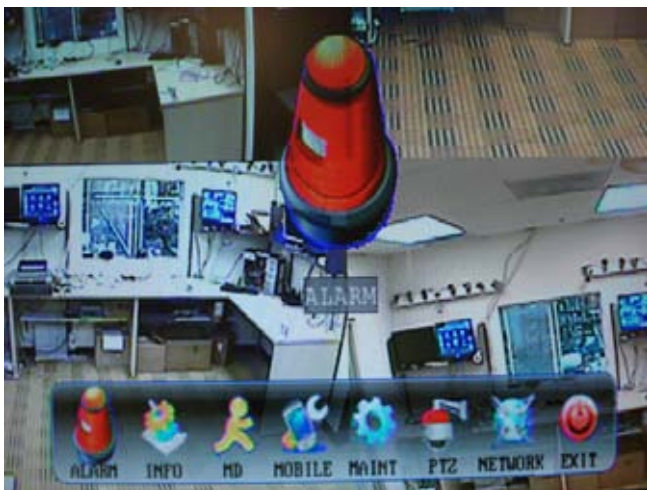
PICTURE 5-7

The Motion Detection buzzer can be enabled or disabled in the Alarm Setup menu covered in **Section 6.1 Alarms**.

EMAIL An email alarm can be assigned to individual channels. Email notifications are covered in **Section 6.2 Email**.



Use the Advanced Setup menu to configure alarm settings, motion detection, mobile surveillance, PTZ settings and network settings. The **Advanced Setup** menu contains the following sub-menus: **Alarm**, **Info**, **Motion Detection**, **Mobile**, **System**, **PTZ**, and **Network**.



PICTURE 6-1

6.1 ALARM

Use the Alarm menu to configure alarm and email settings. External alarm devices must be connected to the alarm block on the rear panel of the system in order to use the I/O (input/Output) alarms of the system. The QS464 is not designed to use alarms.

The motion detection options for each alarm channel can be selected independently and are available below each port's number.



PICTURE 6-2

ALARM SETTINGS

I/O CHANNEL Consult your alarm's manual for the proper settings. Select NO (Normal Open), NC (Normal Closed), or OFF.

HDD LOSS The alarm will sound if the internal hard drive is damaged

HDD SPACE The alarm will sound when the hard drive is full (if overwrite is disabled)

VIDEO LOSS The alarm will sound when a camera is disconnected

ALARM MANAGE Clicking on this button will open a new window.

OUTPUT Set the output time (in seconds) on the spot monitor from 0, 10, 20, 40, or 60 seconds.

BUZZER Set the time (in seconds) for the buzzer when an alarm is triggered—0, 10, 20, 40, or 60 seconds.

Set the buzzer to 0s if you want to disable the alarm during motion detection

POST REC Set the time (in seconds) for the system to record after a triggered alarm—0, 10, 20, 40, or 60 seconds.



PICTURE 6-3

Click **APPLY** and then click **CLOSE** in the confirmation window.

6.2 EMAIL SETUP

The system can send an email notification with a JPEG snapshot for triggered events on the system. Selecting **Email Setup** in the **Alarm Setup** menu will open the **Email Setup** menu. Your DVR will need to be connected to the Internet - either through a router or by being directly connected to a modem - in order to be able to send out email alerts.



NOTE! Depending upon your settings, the system can generate a lot of e-mail alerts. For that reason, we recommend setting up a dedicated e-mail address specifically for the system to send alert notices. If you do not have your own e-mail system (such as a corporate mail server) you should consider using a free e-mail provider. However, because many free e-mail services allow only a limited amount of e-mail traffic we specifically recommend using Google's Gmail service with its higher limit. Similarly, you will want the alert e-mails to go to a different account than the one sending them. This will ease your management of these alerts.

PICTURE 6-4

For the example below, we will use Gmail. The settings can be found under **Options** when logged into your Gmail account. If you have a corporate mail server, you will need to consult with your IT department regarding proper settings.

- STEP 1.** Select **ON** in the pull-down menu to the right of **EMAIL**.
- STEP 2. SSL** Leave SSL turned OFF. SSL deals with encryption. Only advanced users should enable this option.
- STEP 3. SMTP PORT** Enter the SMTP port of your email server. Gmail's is 465.
- STEP 4. SMTP** Enter the SMTP address of your email server. For example, smtp.gmail.com
- STEP 5. SEND EMAIL** The "from" address of your alerts.
- STEP 6. SEND PW** Enter the password of your sending email account
- STEP 7. RCV EMAIL** Enter the destination email address for your notifications.
- STEP 8.** Click **APPLY** and then click **CLOSE** in the confirmation window.
- STEP 9.** Click **EXIT** in all menus until all windows are closed.

6.3 SYSTEM INFO

This window will allow you to view system information - including the firmware version, MAC address, and serial number of the system.

Check this window to determine whether you need to update to a newer version of the firmware. Updating the firmware is covered in **Section 6.4 System**.



PICTURE 6-5

MOTION DETECTION

This was covered in Section 5.4 Motion Detection.

MOBILE ACCESS

This will be covered in **Chapter 4** of the **Remote Monitoring Guide** included on this CD.

6.4 SYSTEM

Use the System menu to update system firmware and set an automatic system reset schedule.

Like most conventional computers, the DVR can benefit from being occasionally shut down and re-started. This clears the memory and improves performance.

ENABLING AUTO-RESET

- STEP 1.** Select **On** in the **AUTO RESET** pull-down menu. The **Settings** option will appear below.
- STEP 2.** In the **SETTINGS** pull-down menu, select **EVERY DAY, EVERY WEEK**, or **EVERY MONTH**. If you choose **EVERY MONTH**, the date drop-down menu will appear.
- STEP 3.** Select the date for auto-reset from the drop-down menu.
- STEP 4.** Enter the time for auto-reset using the Virtual Keyboard.
- STEP 5.** Click **APPLY**, then click **CLOSE** in the confirmation window.



PICTURE 6-6

RESTORING FACTORY SETTINGS

STEP 1. Click **DEFAULT SETTINGS**. This will restore the system to the original factory settings.

STEP 2. Click **OK** in the prompt.



IMPORTANT! Restoring factory settings will cause any settings you've made to the system to be removed! This includes recording and network setups along with passwords!

RESTARTING THE DVR (SOFT-RESET)

STEP 1. Click **RESTART**.

STEP 2. Click **OK** in the prompt. The system will perform a soft-reset and load to a live split-screen view.

UPGRADING THE FIRMWARE

STEP 1. Copy the firmware file to an empty USB flash drive. The firmware file should not be in a folder.

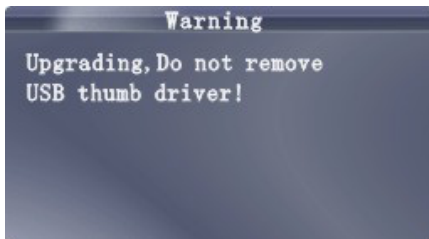
STEP 2. Connect the USB flash drive to the top USB port on the front panel of your system.

STEP 3. Open the System Menu.

STEP 4. Click **FIRMWARE UPDATE**.

The system will scan the USB flash drive and begin updating the firmware. **Do not remove the USB flash drive while the upgrade is taking place.**

STEP 5. Click **CLOSE** in the confirmation window. In the system prompt, click **OK**. The system will restart.



PICTURE 6-7

6.5 PAN-TILT-ZOOM CAMERAS (PTZ)

Use the PTZ Setup menu to configure settings for an optional PTZ camera.



NOTE! Consult the instruction manual of your PTZ camera for complete information about your camera, including protocol and baud rate.

The menu will only display four channels at a time. The pull-down menu in the upper left of the menu allows you to switch between groups of four channels; 1-4, 5-8, 9-12 and 13-16 - the number of channels being dependent on how many your DVR supports.

The PTZ setting options for each camera can be selected independently and are available below each camera's channel number.



PICTURE 6-8

Configuring a PTZ camera:

STEP 1. Connect a PTZ camera to the BNC and 485A (TX, +) and 485B (RX, -) ports and power outlet.

STEP 2. PROTOCOL Select PELCO-D or PELCO-P for the selected channel.

STEP 3. BAUD RATE Select 1200, 2400, 4800, or 9600.

STEP 4. DATA BIT Select 5, 6, 7, or 8.

STEP 5. STOP BIT Select 1 or 2.

STEP 6. VERIFY Select ODD, EVEN, MARK, SPACE, or NONE.

STEP 7. ADDRESS Enter an address from 001~255 using the Virtual Keyboard. Refer to your PTZ camera's instruction manual for further details.

STEP 8. Click **APPLY** and then click **CLOSE** in the confirmation window.

STEP 9. Click **EXIT** in all menus until all windows are closed.

HARD DRIVE INSTALLATION

CHAPTER 8



WARNING! ELECTRIC SHOCK RISK!

The DVR **MUST** be unplugged from all power sources as well as from the cameras before opening the case. Failure to do so can result in damage to the DVR or its components as well as injury or death.



It is strongly advised against opening the case when atmospheric conditions present the risk of static discharge which can damage electronic components. Please follow these steps to install the hard drive:

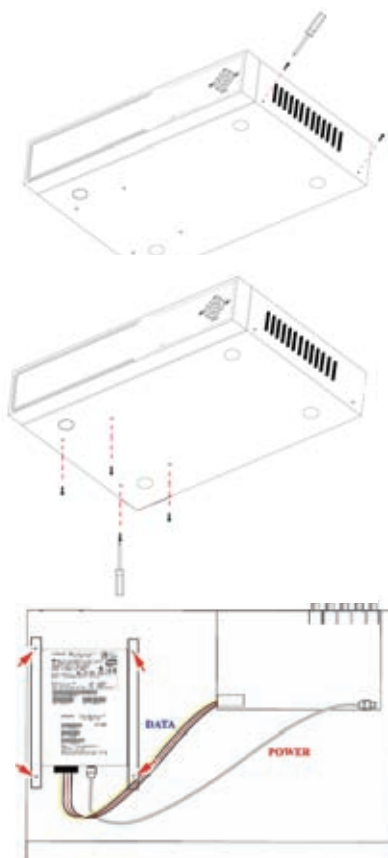
STEP 1. Open the cover of the DVR.

STEP 2. If replacing a hard drive, unscrew the four mounting screws on the underside of the DVR which secure the drive to the base of the DVR.

STEP 3. Connect HDD cables as shown below:

STEP 4. Attach HDD to base of the DVR with the screws provided.

STEP 5. After installing HDD into DVR close cover.



NOTE! The newly-installed hard drive will need to be formatted before it can record.

APPENDIX

PRODUCT SPECIFICATIONS

ITEM	DEVICE PARAMETER	SPECIFICATION			
		QS206	QS408	QS434	QS464
SYSTEM	LANGUAGE	ENGLISH/ CHINESE			
	GUI	GRAPHIC MENU (OSD MENU)			
	PASSWORD	ADMINISTRATOR PASSWORD, USER PASSWORD			
VIDEO	VIDEO IN	16 CH.	8 CH.	4 CH.	4 CH.
		COMPOSITE VIDEO INPUT 1.0VP-P, IMPEDANCE75Ω, BNC			
	VIDEO OUT	1 CH COMPOSITE VIDEO OUTPUT, BNC, VGA 1V P-P CVBS Signal			
	VGA OUTPUT	800x600, 1024x768, 1280x1024, 1366x768, 1440x900			
	VIDEO DISPLAY	1/4/9/16 CHANNEL SWITCH, QUAD DISPLAY	1/4/9 CHANNEL SWITCH, QUAD DISPLAY	1 OR 4 CHANNEL SWITCH, QUAD DISPLAY	
	VIDEO STANDARD	CIF PAL, 25F/S, CCIR625LINE, 50SCENE CIF NTSC, 30F/S, CCIR525LINE, 60SCENE			
		D1 7F/S	D1 30F/S 2 CH.	D1 7F/S	
AUDIO	AUDIO INPUT	2 CH.	8 CH.	4 CH.	2 CH.
		IMPEDANCE600Ω, RCA			
	AUDIO OUTPUT	1 CHANNEL, IMPEDANCE600Ω, RCA			
	RECORD STYLE	AUDIO VIDEO RECORDED SIMULTANEOUSLY			
	AUDIO COMPRESSION	8khz 16bit ADPCM			
PICTURE PROCESSING AND STORAGE	PICTURE COMPRESSION	H.264			
	PICTURE RESOLUTION	CIF (352x240)	CIF (352x240) D1 (702x480)		
	STREAMING STYLE	ISO14496-10			
	AUDIO STYLE	ADPCM			
	VIDEO CODE RATE	CIF: 384~768 KBPS (NORMAL) CIF:512 KBPS (HIGH) CIF: 768 KBPS (HIGHEST)			
	AUDIO CODE RATE	32KB/S			
	DATA STORAGE	1 SATA HDD UP TO 2TB	1 SATA HDD UP TO 1TB		

ITEM	DEVICE PARAMETER	SPECIFICATION			
		QS206	QS408	QS434	QS464
CONNECTOR	NETWORK INTERFACE	RJ45,10M/100M			
ALARM	ALARM INPUT	4 ALARM INPUTS	8 ALARM INPUTS	4 ALARM INPUTS	0
ALARM I/O	VOLTAGE	0-2V, low voltage, 5-30V high voltage			N/A
CONNECTOR	ALARM OUTPUT	2 ALARM OUTPUTS	1 ALARM OUTPUT	1 ALARM OUTPUT	0
	PTZ INTERFACE	SUPPORT 1 RS485 (PelcoD, PelcoP)			
	NETWORK INTERFACE	RJ45, 10M/100M			
	USB	Mouse USB 1.1			
Backup USB 2.0					
SOFTWARE UPGRADE	SUPPORTS USB FIRMWARE UPGRADE				
OTHERS	VOLTAGE INPUT	AC:110~240V			
	VOLTAGE OUTPUT	DC: 12V@5A	DC: 12V@3A	DC: 12V@3A (19V@3A on older models)	DC: 12V@3A
	POWER CONSUMPTION	<6W without HDD			
	WORKING TEMPERATURE	50 TO 104°F (10 TO 40C)			

FREQUENTLY ASKED QUESTIONS

If your problem is not listed below, please check our Resource Center at <http://q-see.com/glossary/resource-library.php> go to live chat at <http://q-see.com> or call our toll-free number, 877-998-3440 for more support.

Question 1: Why is the DVR not working after starting?

Answer:

- Check the power adaptor input
- Check the power on-off
- Check the main board of the DVR

Question 2: Why is the DVR rebooting automatically or stopping for several minutes after starting?

Answer:

- Instability or low input voltage
- Bad track on hard drive or the hard drive is bad
- Power supply is not producing enough power
- The front-end video signal is not stable
- High temperature, too much dust, bad DVR operating environment
- There is a problem with the connector on the main board
- The main board of the DVR is defective

Question 3: Why is there no video output on single channel, multi channel or all channels?

Answer:

- Please check the camera cable connection to verify it is well-connected
- Please check the cable connection video on the back panel of DVR
- Please connect the camera directly to a TV to see if you get picture
- Check the brightness of the picture and bring it back to its original default setting
- The main board of the DVR is defective

Question 4: DVR cannot record after startup and the interface is showing “H”, why?

Answer:

- Make sure power adaptor is DC 19V
- Make sure hard drive is formatted
- Check the power and data connection cables of the hard drive
- The hard drive is defective
- The SATA port is not working

Question 5: What is the meaning of “R” “M” “I” “H” showing on the screen?

Answer:

- “R” means the channel is recording
- “M” means the channel is on motion detection
- “I” means the channel is on alarm
- “H” means there is either no HDD. the HDD is bad or the HDD is full

Question 6: DVR is having problems with real-time images, such as bad image color or serious brightness distortion, why?

Answer:

- If PAL and NTSC is not correctly selected on the BNC output, the images will be in black and white
- DVR is not compatible with monitor
- The video transmission distance is too far
- The DVR color, brightness, etc. settings need to be adjusted

Question 7: Why don't I have audio when monitoring?

Answer:

- Check sound box or speaker functions. Also check for possible short circuit.
- Audio source may be connected to the video channel. You can click to full-screen to check.
- The main board of the DVR is defective

Question 8: Why don't I have audio when playing back?

Answer:

- Setting problem: open audio-video item
- Check the audio to see if it is closed in playback interface

Question 9: Why is my System time not correct?

Answer:

- Wrong setting or user did not click "Edit" to confirm
- Battery is not connected properly
- Battery is dead and needs to be changed

Question 10: Why does the "Stop recording" by the right mouse button not work?

Answer:

- The "Stop recording" by the right mouse button is only suitable for Manual recording. It can't stop recording when recording on a set schedule or on motion recording

Question 11: Why is Motion detection not working?

Answer:

- The settings in the motion detection area is not correct
- Sensitivity is too low

Question 12: Why is the USB device giving me a backup error?

Answer:

- The data exceeds the capacity of backup device
- The backup device is incompatible
- The backup device is damaged

Question 13: Why does the Remote Control not work?

Answer:

- The address of remote control is not correct
- The distance of remote control is too far or the angle is too wide
- Remote control batteries are low
- Remote control is damaged or the front panel of DVR is damaged

Question 14: Why can't I log in over the Internet?

Answer:

- Please check the network to see if it is connected. Check if LINK or 100M LED is displayed on the front panel; use ping xxx.xxx.xxx.xxx (DVR IP) to check if the Internet is linked properly
- Make sure you are running Windows XP, Vista, or Win7 operating system, and IE6.0-8.0 browser
- ActiveX control has been blocked. Please manually install ActiveX control again
- Please install DX8.1 and upgrade your video card driver

Question 15: Why is there is no picture or picture is not clear when you preview the recording or playback the recording via IE?

Answer:

- If you access DVR by IE, please choose "Wan" in "web environment"
- Please try "Close windows" by the right mouse button, and try "Open windows" again

Question 16: Why am I receiving a message indicating "other members are setting....." when accessing my DVR settings through Internet Explorer?

Answer:

- It probably means someone else is changing the settings of the DVR. Please check the DVR configuration interface or exit the DVR

Q-SEE PRODUCT WARRANTY

Q-See is proud to back all of our products with a conditional service warranty covering all hardware for 12 months from the date of purchase. Additionally, our products also come with a free exchange policy that covers all manufacturing defects for one month from the date of purchase. Permanent upgrading service is provided for the software.

Liability Exclusions:

Any product malfunction or abnormalities in operation or damage caused by the following reasons are not within the free service scope of our company:

1. Equipment damage caused by improper operation.
2. Improper equipment operation environment and conditions (e.g., improper power, extreme environmental temperatures, humidity, lightning and sudden surges of electricity).
3. Damage caused by acts of nature (e.g., earthquake, fire, etc).
4. Equipment damage caused by the maintenance of personnel not authorized by Q-See.
5. Product sold over 12 months ago.

In order to fulfill the terms of your warranty, you must complete the registration process after purchasing our product. To do this, simply fill out the User's Information Card on our website at www.Q-See.com



QUESTIONS OR COMMENTS? CONTACT US

PRODUCT SUPPORT, DOWNLOADS, FIRMWARE UPDATES & MANUALS

24/7 Technical Resources

Live Chat (M-F, 9-5 PST)

www.Q-See.com/Support

simplicity - quality - technology



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